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Nr.151 1 January 2018

Research Article

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On the Stueningia species in Turkey (Lepidoptera, Geometridae)

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Abstract: On the Stueningia species in Turkey (Lepidoptera, Geometridae). Cesa News 151: 1-3, 2 figs. 1 map

In this paper, distributions and occurence of two endemic species of Stueningia Hausm. in the tribe Macarini (Geometridae) are discussed. Stueningia wolfi is reported here as new for the fauna of Van Province (East Turkey). Adult and male genitalia are illustrated. A map for two species is

Keywords: Lepidoptera, Geometridae, Macariini, Stueningia, wolfi, taurica, sertelorum, fauna, Van, Turkey.

During an excursion in southern Van Province within the private research project on the Lepidoptera fauna of Turkey, a single male of *Stueningia wolfi* was collected by day in the last year. This record was the first one in Van Province, but faunistically important to come out in a place very far from the type-locality, Karapınar (Central Anatolia) (Map 1). This new locality supports, at the same time, the validity of *Stueningia taurica* Hausm. as a distinct species.

Ennominae Duponchel,[1845]

Macariini Guenée,[1858]

Stueningia Hausmann, 1993

This genus, classified currently in the *Macariini* tribe (Skou & Sihvonen, 2015), is represented by two species. Both of them are apparently endemics for Turkey.

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Stueningia wolfi Hausmann,1993 (Figs. 1, 2; Map 1)

Synonym: wolfi Hausmann,1993

Original Reference: Stueningia wolfi Hausmann,1993, Bonn. zool. Beitr. 44 (3/4): 230-232, Abb.1. Holotype & Türkei: S. Anatolien, Karapınar, 995m, 12.vi.69, leg. G. Friedel (ZSM).

Range (in code): TR o1 o7 33 42 65 o1H o1J o7A o7C 33P 42J 42O 65D 65Dx (Koçak & Kemal, 2017)

Material examined: 13, GP2818. East Turkey, Van Province, Çatak, Elmacı 1760m (65Dx), on 30 6 2016, diurnal, M. Kemal & A.Kocak leg. (Cesa).

This species occurs sympatrically with Choreutis muhabbet Koçak (Choreutidae) at the same place.

Stueningia taurica Hausmann,1993 (Map 1)

This species is represented by two subspecies.

Stueningia taurica ssp. taurica Hausmann, 1993

Synonym: taurica Hausmann,1993

Original Reference: Stueningia wolfi ssp. taurica Hausmann,1993, Bonn. zool. Beitr. 44 (3/4): 230-232, Abb.1. Holotype ♂: Türkei: S. Anatolien, Karapınar, 995m, 12.vi.69, leg. G. Friedel (ZSM).

Range (in code): TR 31 46 31K 31Ka3 46G

Stueningia taurica ssp. sertelorum Kemal & Koçak, 2015

Synonym: sertelorum Kemal & Koçak,2015

Original Reference: Stueningia taurica ssp. sertelorum Kemal & Koçak, 2015, Cesa News 119: 4-6, figs. Holotype 3. South Turkey, Hatay Pr., Samandağ, Meydan, Karabucak 35m, 9 5 2015, M. Kemal & A.Ö.Koçak leg. (coll. Cesa).

Range (in code): TR 31 31K 31Ka3

The name taurica was originally proposed by Hausmann as a valid name of a subspecies of Stueningia wolfi; however, the status of the taxon was changed by the authors to the species with the same name (Kemal & Koçak, 2015). The southernmost population of Stueningia taurica was described as a distinct subspecies, ssp. sertelorum (Map 1). Distribution of Stueningia taurica Hausm. is confined to the mountainous area between Kahramanmaraş and Hatay Provinces in South Turkey. On the other hand, the species Stueningia wolfi Hausmann confined Taurus Mountain Range in South Turkey on both sides, namely southern and northern parts of the Range, up to the present paper. It may be zoogeographically considered as an East Mediterranean element. The possibility of spreading of this species to a wider area in the southern mountainous region of Van Province is probable, provided that it inhabits in hot valleys of the lowland. The present single record of Stueningia wolfi in Çatak (Van Prov.) may be considered reasonable, and its richer populations are more likely to be found in further southerly locations.

When commenting on the morphological characteristics of the male genitalia of S. wolfi (western populations) and the specimen from Van are evaluated, there is no difference at species level. However, more material should be collected and examined for the investigations at subspecific level. Shape of the bicuspid valvular process may be important in this respect.

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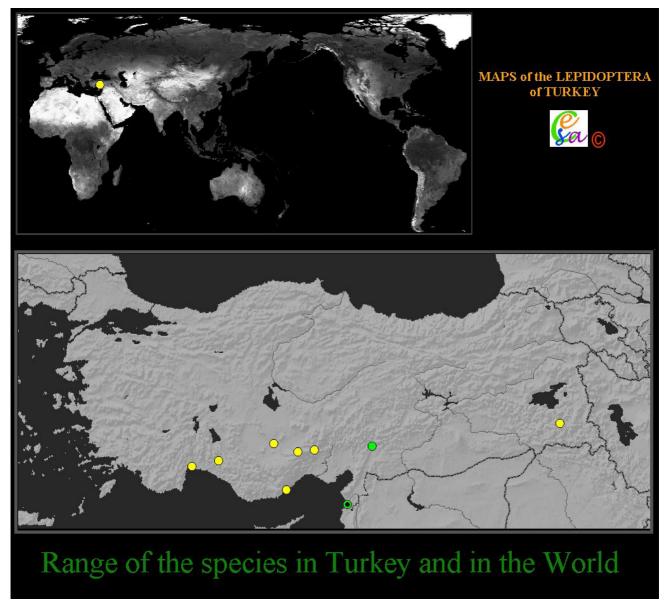
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Figs. 1, 2 – Stueningia wolfi. Upperside of male, and its genitalia. GP2818. East Turkey, Van Prov. Çatak, Elmacı 1760m (65Dx), 30 6 2016, M. Kemal (Cesa)



Map 1 - Distribution of Stueningia species in Turkey: S. wolfi Hausm. (yellow), and S. taurica Hausm. (green). S. taurica ssp. taurica Hausm. (green), S. taurica ssp. sertelorum Kemal & Koçak (black centered green), A. Koçak (Cesa)

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